

Appl. No. : 09/315,292
Filed : May 20, 1999

AMENDMENTS TO THE CLAIMS

1-98. (Canceled).

99. (Previously Presented) A method for enhancing uptake of~~administering~~ an oligonucleotide into a lung of a mammal, said method comprises:

~~aerosolizing an oligonucleotide; and~~

~~administering an~~introducing the aerosolized oligonucleotide into the lung of a mammal,

wherein the aerosol particles have a size of about 1 to about 5 microns, wherein said oligonucleotide is ~~about 8 to about 30~~ nucleotides in length, wherein at least one nucleoside in said oligonucleotide is a 2'-O-methoxyethyl nucleoside, ~~wherein at least one internucleotide linkage within said oligonucleotide is a phosphorothioate linkage,~~ wherein each cytosine of said oligonucleotide is a 5-methylcytosine, and wherein said oligonucleotide is taken up by at least one cell type in the lung of the mammal, and wherein the amount of said oligonucleotide taken up by said cell type in the lung of the mammal is enhanced as compared to an oligonucleotide with the same sequence and lacking said 2'-O-methoxyethyl nucleoside.

100. (Currently Amended) The method of claim 99, wherein ~~all~~at least one internucleotide linkage[[s]] within said oligonucleotide ~~are~~is a phosphorothioate linkage.

101-102. (Canceled).

103. (Previously Presented) The method of claim 99, wherein said oligonucleotide is in an aqueous media.

104. (Previously Presented) The method of claim 99, wherein said oligonucleotide is in sterilized, pyrogen free water.

105. (Previously Presented) The method of claim 99, wherein said oligonucleotide is in a saline solution.

106. (Previously Presented) The method of claim 99, wherein said oligonucleotide is in a powder.

107. (Previously Presented) The method of claim 99, wherein each internucleotide linkage within said oligonucleotide is a phosphorothioate linkage.

108. (Canceled).

109. (Previously Presented) The method of claim 99, wherein said oligonucleotide is about 15 to about 25 nucleotides in length.

Appl. No. : 09/315,292
Filed : May 20, 1999

110. (Currently Amended) The method of claim 109, wherein ~~all~~at least one internucleotide linkage[[s]] within said oligonucleotide ~~are~~is a phosphorothioate linkage.

111-112. (Canceled).

113. (Previously Presented) The method of claim 109, wherein said oligonucleotide is in an aqueous media.

114. (Previously Presented) The method of claim 109, wherein said oligonucleotide is in sterilized, pyrogen free water.

115. (Previously Presented) The method of claim 109, wherein said oligonucleotide is in a saline solution.

116. (Previously Presented) The method of claim 109, wherein said oligonucleotide is in a powder.

117. (Previously Presented) The method of claim 109, wherein each internucleotide linkage within said oligonucleotide is a phosphorothioate linkage.

118. (Canceled).

119. (Previously Presented) The method of claim 109, wherein said oligonucleotide is 20 nucleotides in length, and said oligonucleotide is in a saline solution.

120. (Canceled).

121. (Previously Presented) The method of claim 119, wherein each internucleotide linkage within said oligonucleotide is a phosphorothioate linkage.

122-127. (Canceled).

128. (New) The method of claim 99, wherein said oligonucleotide is 20 nucleotides in length, and wherein each nucleoside in said oligonucleotide is a 2'-O-methoxyethyl nucleoside.